

TO AM TO WHOM THESE: PRESENTS SHAME COME;

# ERALI Genetics Corporation

INCCCIS. THERE HAS BEEN PRESENTED TO THE

### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT variety protection under the LAW.

NOW THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, FIEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC replenishment of viable basic seed of the variety in a public repository as provided by LAW, the GHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IRTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

#### SOYBEAN

#### 'CX284c'

In Testiment Thereof, I have hereunto set my hand and caused the seal of the Plant Inviery Protection Office to be affixed at the City of Washington, D.C. this ninth day of Tebruary, in the year of our Lord two thousand one.

Plant Varioty Protection

| REPRODUCE LOCALLY. Include form number and date  U.S. DEPARTMENT OF ACRICULTURA  AGRICULTURAL MARKETING SERVICE  CONTROL AND THE PROPERTY OF T | E   | The following statements are n   | FORM APPROVED - OMB NO. 058   |
|--|---|--|---|
| SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY  | E<br>PROTECTION OFFICE  | The following statements are made in accordance with the Privacy A<br>1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 199  |   |
| APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  (Instructions and information collection burden statement on reverse)  |   | To be issued if U.S.   | to determine if a plant variety proj<br>S.C. 24211. Information is held confi |
| 1. NAME OF APPLICANT(S) las it is to appear on the Certificate)  | tatement on reverse)  | Shar certificate is issued (7 U.S.   | C. 2426).   |
|  |   | 2. TEMPORARY DESIGNATION OR<br>EXPERIMENTAL NUMBER   | 3. VARIETY NAME   |
| DEKALB Genetics Corporation  |   | EX728  | CX284c  |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, an   | od Council  | 1  | ·   |
| · · · · · · · · · · · · · · · · · · ·  | a Coalby;   | 6. TELEPHONE finckide area code!   | FOR OFFICIAL USE ONLY   |
| 2100 Syramore Deed   |   | (815) 758-3461   | 9800247   |
| 3100 Sycamore Road   | · ·   | 6. FAX finclude area code!   | <del>- </del>   |
| DeKalb, IL 60115   |   | o. FAA uncude area code)   | DATE  |
| •  |   | (815) 758-4106   | 5/05/98   |
| 7. GENUS AND SPECIES NAME  | 8. FAMILY NAME (Botan   | iceli  | G   |
| Glycine max L. Merr.   | Leguminosa  | ·  | FUNG AND EXAMINATION FEE:   |
| 8. CROP KIND NAME (Common name)  |   | 1 <del>C</del>   | 12,450.00   |
| Soybean  | -   |  | S DATE  |
| •  |   |  | RS/OS(()  |
| 10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGA  COPPORATION   | NIZATION (corporation, partnersh  | p, association, etc.) [Common name]  | C CERTIFICATION FEE:  |
| 11. IF INCORPORATED, GIVE STATE OF INCORPORATION   |   | :  | V 330   |
| Delaware   |   | 12. DATE OF INCORPORATION  | E DATE  |
| 3. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO   |   | June 15, 1988  | 10/10/00  |
| R. Mark Lawson Tim Kain Hd 859   |   |  | 14. TELEPHONE finclude area code!   |
| DEKALB Genetics Corporation  | A-1   |  | (815) 758-3461  |
| 3100 Sycamore Road   | DENALB Gen  | etics Corporation  | 15. FAX (include area code)   |
| DeKalb, IL 60115   | 3100 Sycamo   |  | (815) 758-4106  |
| 6. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED IF OR   | DeKalb, IL 60   | 7115   | (010) 700-4100  |
| a. Exhibit A. Origin and Breeding History of the Variety   | ow instructions on reverse)   |  |   |
| b. Exhibit B. Statement of Distinctness  |   |  |   |
| c. Exhibit C. Objective Description of the Variety   |   |  |   |
| d. Exhibit D. Additional Description of the Variety (Optional)   |   |  |   |
| e. Exhibit E. Statement of the Basis of the Applicant's Ownership  |   |  |   |
| <ol> <li>Voucher Sample (2,600 viable untreated seeds or, for tuber propage</li> <li>Filing and Examination Fee (\$2,450), made payable to "Treasurer or</li> </ol>  | pated varieties verification that tiss  | ue culture will be deposited and maintained  | in an approved public repository)   |
| DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD   | or the United States" (Mail to PVP)   | D)   |   |
| DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD I   | NO III "no," go to  | CLASS OF CERTIFIED SEED? (See Section item 201   | 83(a) of the Plant Variety Protection Act/                                    |
| DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITE   |   | "YES" TO ITEM 18, WHICH CLASSES O  | E PRODUCTION BOYOUR PROTECTION  |
|  | A -D CHILDRE  |  |   |
| ☐ YES ☐ NO OR W  | 사 원 원인 統領 📗   |  | A CONTROLLED  |
| HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY REFORM   | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | FOUNDATION REGISTERED  | LI CERTIFIED  |
| HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN F   | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | FOUNDATION REGISTERED  SALE, OR MARKETED IN THE U.S. OR OT   | HER COUNTRIES?  |
| HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN F  YES #1 'yes,* give names of countries and dates!  U.S. Jan. 98   | RELEASED, USED, OFFERED FOR   | SALE, OR MARKETED IN THE U.S. OR OT  | HER COUNTRIES?  |
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9800247

## Origin and Breeding History CX284c

CX284c is a late-Group II variety derived from the cross CX340c<sup>2</sup> x CX259.

Winter 1990-91

The cross CX340c x CX259 was made.

Summer 1991

The cross CX340c(CX340c x CX259) was made.

Winter 1991-92

F1 generation was grown (range 1, row 43).

F2 generation was grown (range 43, rows 1-15).

Summer 1992

F3 generation was grown (range 610, rows 29-40 through range 611, rows 1-28).

Summer 1993

F4 generation was grown. Range 800, row 26 was selected.

Winter 1993-94

F5 generation was grown.

Summer 1994

F6 generation was grown.

Summer 1995

F7 generation was grown.

Summer 1996

F8 generation was grown.

Winter 1996-97

F9 generation was grown.

Summer 1997

F10 generation was grown.

Spring 1998

F11 generation was released as CX284c.

## Statement of Stability and Uniformity

Soybean variety CX284c has been judged to be uniform for breeding use and testing after four (4) generations of selfing. CX284c was reproduced and judged uniform and stable for an additional seven (7) generations.

## Wo gay Statement of Variants

CX284c shows no variants other than what would normally be expected due to environment or that would occur for almost any characteristic during the course of repeated sexual reproduction.

## **Novelty Statement**

DEKALB Genetics Corporation believes that CX284c is most similar to soybean variety CX297, except for the following traits: CX284c has white flowers, is resistant to Soybean Cyst Nematode Race 3 and has normal tolerance to sulfonylurea herbicides whereas, CX297 has purple flowers, is susceptible to Soybean Cyst Nematode Race 3 and has enhanced tolerance to sulfonylurea herbicides.

75 1W 5- WW 86.

120 V - MARC - LALO.

## **EXHIBIT C**

## **OBJECTIVE DESCRIPTION OF VARIETY**

Soybean Variety CX284c

Experimental Name: EX728

| APPLICANT: | DEKALB Genetics Corporation<br>3100 Sycamore Road<br>DeKalb, IL 60115 |   |
|------------|---|---|
| :          | DOI: 100113   | · |

| <u>l.</u>   | SEED SHAPE: (1) Spherical                             |  |  |
|---|---|--|--|
| <u>2.</u>   | SEED COAT COLOR: (Mature Seed) (1) Yellow             |  |  |
| <u>3.</u>   | SEED COAT LUSTER: (Mature Hand Shelled Seed) (1) Dull |  |  |
| <u>4.</u>   | SEED SIZE: (Mature Seed) 17.5g/100 seed               |  |  |
| <u>5.</u>   | HILUM COLOR: (Mature Seed) (6) Black                  |  |  |
| <u>6.</u>   | COTYLEDON COLOR: (Mature Seed) (1) Yellow             |  |  |
| <u>7.                                    </u>   | SEED PROTEIN PEROXIDASE ACTIVITY: (2) High            |  |  |
| 8.  | SEED PROTEIN ELECTROPHORETIC BAND: -                  |  |  |
| <u>9.</u>   | HYPOCOTYL COLOR: (2) Green with Bronze Band           |  |  |
| <u> 10.</u>   | LEAFLET SHAPE: (3) Ovate                              |  |  |
| <u>11.</u>  | FLOWER COLOR: (1) White                               |  |  |
| <u>12.</u>  | POD COLOR: (1) Tan                                    |  |  |
| 13.   | PLANT PUBESCENCE COLOR: (3) Tawny                     |  |  |
| 14.   | PLANT HABIT: (3) Indeterminate                        |  |  |
| 15. MATURITY GROUP: (5) II and the state of |   |  |  |
| 16.   | IATURITY SUBGROUP: (8)                                |  |  |

USDA BARRA

#### **EXHIBIT C**

CX284c

Page two.

#### **17. DISEASE REACTION:**

## (0=Not Tested; 1=Susceptible; 2=Resistant; 3=Tolerant)

| Bacter | rial | Disc | eases: |
|--------|------|------|--------|
|        |      |      |        |

Bacterial Pustule: 0 Bacterial Blight: 0 WildfireBlight: 0

### Fungal Diseases:

Brown Spot: 0 Frogeye Leaf Spot

> Race 1: 0 Race 2: 0 Race 3: 0 Race 4: 0 Race 5: 0 Race 6: 0

Other: 0

Target Spot: 0 Downy Mildew: 0 Powdery Mildew: 0 Brown Stem Rot: 2 Stem Canker: 0 Pod and Stem Blight: 0 Purple Seed Stain: 0 Rhizoctonia Root Rot:

Phytophthora Root Rot (1)

Race 1: 0 Race 2: 0 Race 3: 0 Race 4: 0 Race 5: 0 Race 6: 0 Race 7: 0 Race 8: 0 Race 9: 0 Race 10: 0 Race 11: 0 Race 12: 0 Race 13: 0 Race 14: 0 Race 15: 0 Race 16: 0 Race 17: 0 Race 18: 0 Race 19: 0 Race 20: 0 Race 21: 0 Race 22: 0 Race 23: 0 Race 24: 0

Race 25: 0 Race 26: 0 Other: 0

#### Viral Diseases:

Bud Blight: 0 Yellow Mosaic: 0 Cowpea Mosaic: 0 Pod Mottle:

Seed Mottle:

**EXHIBIT C** 

CX284c

Page three.

9800247

Nematode Diseases:

Soybean Cyst Nematode

Race 1: 1 Race 6: 0

Race 2: 0 Race 9: 0 Race 3: 2

Race 5: 0

Race 14 (formerly Race 4): 0

Lance Nematode:

0

Southern Root Knot Nematode: 0

Northern Root Knot Nematode: 0

Peanut Root Knot Nematode:

Reniform Nematode:

e: 0 0

Other:

0

20. PHYSIOLOGICAL RESPONSES:

Iron Chlorosis on Calcareous Soil:

1 (DEKALB's score is 5; scale 1-9, 1=most resistant)

Other:

0

21. **INSECT REACTION:** 

Mexican Bean Beetle: (

Potato Leaf Hopper: 0

Other:

0

22. HERBICIDE RESISTANCE:

Metribuzin:

0

Sulfonylurea:

: 3

Roundup:

0

Other:

0

#### **ADDITIONAL INFORMATION**

In 1997, CX284c was tested in the greenhouse at the University of Arkansas on soybean cyst nematode Race 3 infested soil. It was rated resistant. It was also tested by Iowa State University in replicated field trials and was rated resistant. This confirmed DEKALB field observations of resistance to soybean cyst nematode Race 3.

A20 Variable to the

In 1997, CX284c was rated resistant to brown stem rot in a replicated field test in Dekalb County, IL. In this trial, known susceptible checks received susceptible ratings. This information confirmed field observations by company researchers from 1993 through 1997 as to the brown stem rot resistance of CX284c.

| U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE  | The following statements are made in accordance with the Privacy Act 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. |   |  |  |
|--|--|---|--|--|
| EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP  | Application is required in order to a  | etermine if a plant variety protection<br>(2421). Information is held confidentia |  |  |
| 1. NAME OF APPLICANT(S)  | 2. TEMPORARY DESIGNATION<br>OR EXPERIMENTAL NUMBER   | 3. VARIETY NAME   |  |  |
| DEKALB Genetics Corporation  | EX728  | CX284c  |  |  |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)  | 5. TELEPHONE (include area code)   | 6 FAY Good do   |  |  |
| 3100 Sycamore Road<br>DeKalb, IL 60115   | (815) 758-3461   | 6. FAX (include area code)<br>(815) 758-4106                                      |  |  |
| U.S.A.   | 7. PVPO NUMBER   | 7. PVPO NUMBER  |  |  |
| 8. Does the applicant own all rights to the variety? Mark an "X" in appro  | 9800247  | 980024 <b>7</b>   |  |  |
| 9. Is the applicant (individual or company) a U.S. national or U.S. based If no, give name of country  10. Is the applicant the original owner?    YES | company2   | X YES NO  |  |  |
| a. If original rights to variety were owned by individual(s), is (are) the   |  | niowing.  |  |  |
| b. If original rights to variety were owned by a company(ies), is(are) the   | NO If no, give name of country ne original owner(s) a U.S. based company   | ?   |  |  |
| TYES []  | NO If no, give name of country   |   |  |  |
| 11. Additional explanation on ownership (if needed, use reverse for extra  | space):  |   |  |  |
|  |  |   |  |  |
|  |  |   |  |  |
|  |  |   |  |  |
| LEASE NOTE:  |  |   |  |  |

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

- 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to compete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal

STD-470-E (07-97) (Destroy previous editions).